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09/575172

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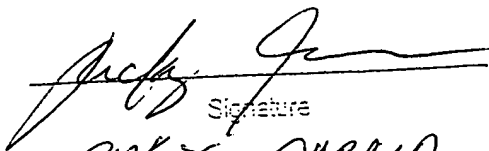
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(12) **United States Patent**
Lapstun et al.

(10) Patent No.: **US 6,839,053 B2**
(45) Date of Patent: ***Jan. 4, 2005**

(54) **HAND-DRAWING CAPTURE VIA
INTERFACE SURFACE AND PROCESSING
SENSOR**

(75) Inventors: **Paul Lapstun, Balmain (AU); Kia
Silverbrook, Balmain (AU)**

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

This patent is subject to a terminal dis-
claimer.

(21) Appl. No.: **10/291,584**

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382/314; 382/315; 717/101; 717/106; 707/101**

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(57) **ABSTRACT**

A method and system for enabling user interaction with
computer software running in a computer system via an
interface surface and a sensing device. The interface surface
contains information relating to the computer software and
coded data indicative of a drawing field. When placed in an
operative position relative to the interface surface, the sens-
ing device senses indicating data indicative of the drawing
field and generates movement data indicative of the sensing
device's movement relative to the interface surface. The
indicating and movement data are received in the computer
system from the sensing device. The drawing field is iden-
tified and then the computer software is operated at least
partly in reliance on the movement data, and in accordance
with instructions associated with the drawing field.

29 Claims, 40 Drawing Sheets

